



NEW JERSEY COMMISSION  
ON SCIENCE AND TECHNOLOGY

# New Jersey Technology Fellowships

*The Commission on Science and Technology offers technology-based firms \$75,000 – \$85,000 to hire selected doctoral graduates, putting cutting-edge research to work for New Jersey.*

# New Jersey Commission on Putting Research to

**T**he Technology Fellowship program pays the salary of recent doctoral graduates of New Jersey universities to work in small New Jersey technology companies. Postdoctoral fellows receive \$65,000 the first year and \$75,000 the second year, with an additional \$10,000 allotment each year for career expenses.

## Program Goals:

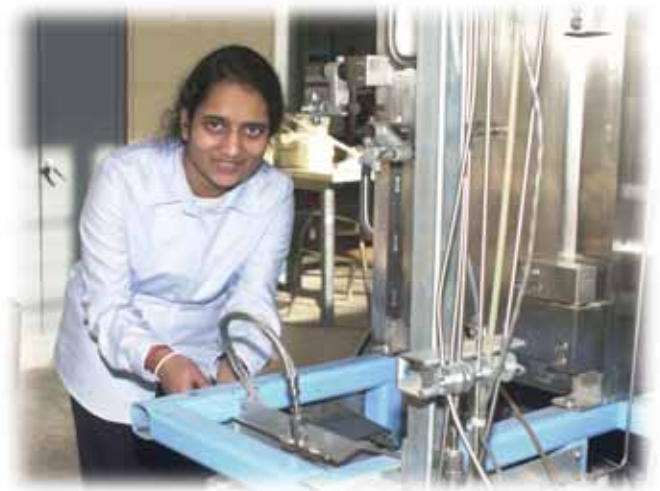
- Provide an entrepreneurial experience for the postdoctoral fellow
- Assist growing technology companies in New Jersey
- Build working relationships between the company and the University lab the postdoctoral fellow has left
- Retain talent in New Jersey

*"Biotech ventures are springing up all over the country. This fellowship increases the likelihood of retaining talent in New Jersey."*

— Gregory Kornhaber

*"We are proud to launch the careers of these young scientists and to help New Jersey entrepreneurs create more quality high-tech jobs in New Jersey."*

— Donald L. Drakeman, Commission Chairman



## Energy Photovoltaics and Anamika Patel

Energy Photovoltaics develops thin film modules to make solar energy more economical. Dr. Patel has used the expertise she acquired at the New Jersey Institute of Technology's ion beam and thin film research lab to continue to improve solar cell efficiency during the second year of her fellowship. Following a year on the job, Dr. Patel said "the fellowship has been a very good experience; it is the perfect start for my career in the industry."

## ExSAR Corp. and Gregory Kornhaber

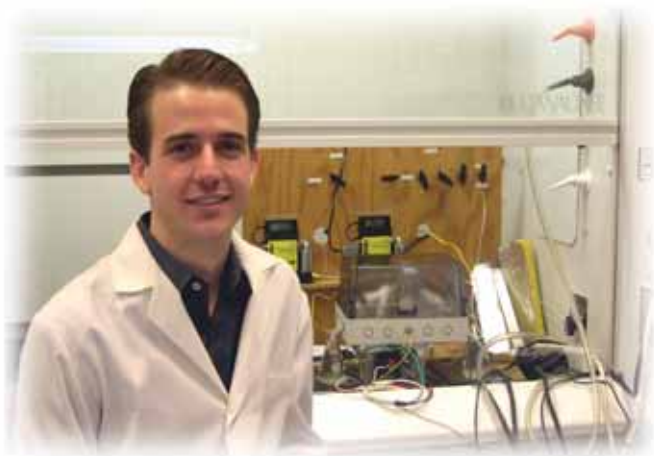
ExSAR Corp. is seeking treatments for genetic diseases for which there are no current therapies, specifically Tay-Sachs Disease, a fatal genetic disorder in children. Dr. Kornhaber, a doctoral graduate of University of Medicine and Dentistry (UMDNJ) and Rutgers University, is using his expertise in protein characterization to develop a profile of the inactive enzyme and find a treatment.

The Technology Fellowship program is dedicated to the memory of Dr. William Oliver Baker, a founding member of the Commission on Science and Technology. Dr. Baker was president of Bell Laboratories from 1973-1979 when Bell Labs scientists twice received the Nobel Prize in physics.





# n Science and Technology Work for New Jersey



## Exelus, Inc. and James Nehlsen

Exelus, Inc. is developing and licensing chemical technologies to produce a wide range of chemicals and fuels that are more energy efficient and safer. Exelus hired James Nehlsen, a doctoral graduate of the Department of Chemical Engineering at Princeton University, who is focused on a new and versatile technique to produce hydrogen. "The fellowship accelerates my career by enabling me to jump immediately into an important project and contribute in a very significant way to the development of a new technology," Dr. Nehlsen said.

**The Commission looks to fund Fellowships focused on the following New Jersey priorities:**

- Life Science
- Nanotechnology/ Advanced Materials
- Alternative Energy
- Computational Methods
- Telecommunications

## ProFACT Proteomics and Meghan Tierney

ProFACT Proteomics hired Meghan Tierney, a doctoral graduate of Rutgers University, to study how environmental and physical conditions affect protein expressions to determine therapeutic relevance for human diseases.

"This fellowship advances my career by diversifying my research skills while working on a project that is scientifically and socially relevant," said Dr. Tierney.

## Signum Biosciences and David Fela

Signum Biosciences, founded in 2002 based on scientific breakthroughs made in Jeffry Stock's Princeton University laboratory, strives to identify therapeutic compounds for treatment of diseases such as Alzheimer's and Parkinson's. Dr. Fela is using his expertise developed at Rutgers University and access to research facilities to help Signum develop pharmaceutical and botanical extracts that can be used to treat neurological diseases. At the start of the second year of his fellowship, Dr. Fela said, "the NJCST fellowship has allowed me to further develop as a scientist through learning new techniques while applying my existing knowledge and experience at a higher level."

## Advaxis Inc. and Mariela Reyes-Reyes

Advaxis Inc. is a company poised to conduct clinical trials of a vaccine for late-stage cervical cancer patients. Advaxis was eager to add the experience of Mariela Reyes-Reyes, a doctoral graduate of UMDNJ, and her knowledge of gene expression to their staff.

"It is a priceless opportunity to work on a project that can be life-changing for everyone affected by this disease," said Dr. Reyes-Reyes.

***"This program allows New Jersey to be on the cutting edge of research and development of new technology."***

— Mariela Reyes-Reyes

## UV Solutions and Nazieh Masoud

UV Solutions, at the Enterprise Development Center technology incubator on the NJIT campus, designs, develops and manufactures innovative ultraviolet light sources spanning a wide range of applications from materials processing, water treatment and ozone generation to the curing of paints, inks and adhesives. Dr. Nazieh Massoud, a doctoral graduate of Stevens Institute of Technology, is using his expertise in plasma discharge to help UV solutions move toward commercialization of its products.



# New Jersey Technology Fellowship Eligibility

## Doctoral Graduates

- Must be prepared to receive a degree within six months or have just received a degree within the past six months from a New Jersey university. (Occasional exceptions for extenuating circumstances may be made.)
- Must be in good standing with the conferring university
- Must continue to live in New Jersey while holding this fellowship
- Must be 1.) US Citizen; or 2.) Legal Permanent Resident; or 3.) Individuals with all of the following: a valid immigrant visa, a valid Employment Authorization Document and an I-485 pending with the United States Citizenship and Immigration Service

## Corporate Partners

- Principal place of business is New Jersey
- 75% of employees live in New Jersey
- Total revenue, of this company and all subsidiaries, is less than \$10 million
- Minimum of 3 employees/consultants, each employed at least 25 hours per week
- Company may not be a home-based operation

Applications and deadline information available online at  
[www.nj.gov/scitech/university/fellowship](http://www.nj.gov/scitech/university/fellowship)

### PARTNER UP!

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